

Probabilistic results summary : RESRAD Default

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## Probabilistic Input

Number of Sample Runs: 300

Number	Name	Distribution	Parameters	
1	DCACTC (2)	UNIFORM	615	635
2	DCACTU1 (2)	UNIFORM	615	635
3	DCACTS (2)	UNIFORM	615	635
4	DCACTC (3)	UNIFORM	615	635
5	DCACTU1 (3)	UNIFORM	615	635
6	DCACTS (3)	UNIFORM	615	635
7	DCACTC (4)	UNIFORM	62	331
8	DCACTU1 (4)	UNIFORM	62	331
9	DCACTS (4)	UNIFORM	62	331
10	DCACTC (5)	UNIFORM	2.3	3.4
11	DCACTU1 (5)	UNIFORM	2.3	3.4
12	DCACTS (5)	UNIFORM	2.3	3.4

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## Probabilistic Total Dose Summary

Nuclide (j)	Peak Time	Peak Dose	DOSE (j, t), mrem/yr							
			t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60										
Min	0.00E+00	5.28E+00	5.28E+00	4.61E+00	3.52E+00	1.36E+00	8.74E-02	1.03E-11	0.00E+00	0.00E+00
Max	0.00E+00	5.28E+00	5.28E+00	4.61E+00	3.52E+00	1.36E+00	8.74E-02	1.03E-11	0.00E+00	0.00E+00
Avg	0.00E+00	5.28E+00	5.28E+00	4.61E+00	3.52E+00	1.36E+00	8.74E-02	1.03E-11	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134										
Min	0.00E+00	3.32E+00	3.32E+00	2.36E+00	1.19E+00	1.10E-01	1.16E-04	4.14E-20	0.00E+00	0.00E+00
Max	0.00E+00	3.32E+00	3.32E+00	2.36E+00	1.20E+00	1.10E-01	1.17E-04	4.17E-20	0.00E+00	0.00E+00
Avg	0.00E+00	3.32E+00	3.32E+00	2.36E+00	1.19E+00	1.10E-01	1.16E-04	4.16E-20	0.00E+00	0.00E+00
Std	0.00E+00	2.70E-05	2.70E-05	6.06E-05	7.25E-05	2.01E-05	6.22E-08	7.28E-23	0.00E+00	0.00E+00
Cs-137										
Min	0.00E+00	1.59E+00	1.59E+00	1.54E+00	1.45E+00	1.18E+00	6.44E-01	1.09E-06	0.00E+00	0.00E+00
Max	0.00E+00	1.59E+00	1.59E+00	1.54E+00	1.45E+00	1.19E+00	6.45E-01	1.10E-06	0.00E+00	0.00E+00
Avg	0.00E+00	1.59E+00	1.59E+00	1.54E+00	1.45E+00	1.18E+00	6.45E-01	1.09E-06	0.00E+00	0.00E+00
Std	0.00E+00	1.35E-05	1.35E-05	4.01E-05	8.88E-05	2.18E-04	3.45E-04	1.92E-09	0.00E+00	0.00E+00
Ni-63										
Min	0.00E+00	6.26E-03	6.26E-03	6.04E-03	5.61E-03	4.34E-03	2.00E-03	1.96E-08	0.00E+00	0.00E+00
Max	0.00E+00	6.30E-03	6.30E-03	6.17E-03	5.92E-03	5.10E-03	3.21E-03	9.22E-08	0.00E+00	0.00E+00
Avg	0.00E+00	6.29E-03	6.29E-03	6.14E-03	5.84E-03	4.91E-03	2.88E-03	6.70E-08	0.00E+00	0.00E+00
Std	0.00E+00	1.02E-05	1.02E-05	3.27E-05	7.44E-05	1.87E-04	3.06E-04	2.01E-08	0.00E+00	0.00E+00
Sr-90										
Min	0.00E+00	1.74E+00	1.74E+00	1.02E+00	3.45E-01	7.77E-03	1.48E-07	7.61E-06	0.00E+00	0.00E+00
Max	0.00E+00	1.86E+00	1.86E+00	1.28E+00	5.97E-01	4.18E-02	2.01E-05	1.58E-01	0.00E+00	0.00E+00
Avg	0.00E+00	1.81E+00	1.81E+00	1.16E+00	4.75E-01	2.23E-02	5.10E-06	3.87E-02	0.00E+00	0.00E+00
Std	0.00E+00	3.44E-02	3.44E-02	7.48E-02	7.34E-02	9.94E-03	5.46E-06	5.38E-02	0.00E+00	0.00E+00
ΣALL										
Min	0.00E+00	1.19E+01	1.19E+01	9.54E+00	6.52E+00	2.67E+00	7.34E-01	8.79E-06	0.00E+00	0.00E+00
Max	0.00E+00	1.21E+01	1.21E+01	9.80E+00	6.77E+00	2.70E+00	7.36E-01	1.58E-01	0.00E+00	0.00E+00
Avg	0.00E+00	1.20E+01	1.20E+01	9.68E+00	6.65E+00	2.68E+00	7.35E-01	3.87E-02	0.00E+00	0.00E+00
Std	0.00E+00	3.44E-02	3.44E-02	7.48E-02	7.34E-02	9.95E-03	4.57E-04	5.38E-02	0.00E+00	0.00E+00

ΣALL is total dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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## Probabilistic Risk Summary

Nuclide (j)	RISK(j,t)							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.30E-04	1.13E-04	8.65E-05	3.34E-05	2.15E-06	4.79E-15	0.00E+00	0.00E+00
Max	1.30E-04	1.13E-04	8.65E-05	3.34E-05	2.15E-06	4.79E-15	0.00E+00	0.00E+00
Avg	1.30E-04	1.13E-04	8.65E-05	3.34E-05	2.15E-06	4.79E-15	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	8.73E-05	6.21E-05	3.14E-05	2.88E-06	3.07E-09	1.52E-23	0.00E+00	0.00E+00
Max	8.73E-05	6.21E-05	3.14E-05	2.88E-06	3.07E-09	1.53E-23	0.00E+00	0.00E+00
Avg	8.73E-05	6.21E-05	3.14E-05	2.88E-06	3.07E-09	1.53E-23	0.00E+00	0.00E+00
Std	0.00E+00	1.08E-09	1.65E-09	5.05E-10	1.61E-12	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	3.60E-05	3.50E-05	3.30E-05	2.69E-05	1.47E-05	4.22E-10	0.00E+00	0.00E+00
Max	3.60E-05	3.50E-05	3.30E-05	2.69E-05	1.47E-05	4.25E-10	0.00E+00	0.00E+00
Avg	3.60E-05	3.50E-05	3.30E-05	2.69E-05	1.47E-05	4.24E-10	0.00E+00	0.00E+00
Std	0.00E+00	6.05E-10	1.73E-09	4.72E-09	7.71E-09	7.42E-13	0.00E+00	0.00E+00
Ni-63								
Min	3.14E-07	3.04E-07	2.83E-07	2.19E-07	1.01E-07	1.62E-11	0.00E+00	0.00E+00
Max	3.14E-07	3.08E-07	2.96E-07	2.55E-07	1.61E-07	7.64E-11	0.00E+00	0.00E+00
Avg	3.14E-07	3.07E-07	2.93E-07	2.46E-07	1.44E-07	5.55E-11	0.00E+00	0.00E+00
Std	0.00E+00	1.07E-09	3.19E-09	8.93E-09	1.51E-08	1.67E-11	0.00E+00	0.00E+00
Sr-90								
Min	4.11E-05	2.47E-05	8.36E-06	1.89E-07	3.59E-12	1.54E-10	0.00E+00	0.00E+00
Max	4.11E-05	2.87E-05	1.34E-05	9.40E-07	4.53E-10	2.51E-06	0.00E+00	0.00E+00
Avg	4.11E-05	2.69E-05	1.10E-05	5.15E-07	1.16E-10	6.62E-07	0.00E+00	0.00E+00
Std	0.00E+00	1.17E-06	1.48E-06	2.20E-07	1.23E-10	8.82E-07	0.00E+00	0.00E+00
ΣALL								
Min	2.95E-04	2.36E-04	1.60E-04	6.37E-05	1.69E-05	6.47E-10	0.00E+00	0.00E+00
Max	2.95E-04	2.40E-04	1.65E-04	6.44E-05	1.70E-05	2.51E-06	0.00E+00	0.00E+00
Avg	2.95E-04	2.38E-04	1.62E-04	6.40E-05	1.70E-05	6.62E-07	0.00E+00	0.00E+00
Std	0.00E+00	1.17E-06	1.48E-06	2.20E-07	1.68E-08	8.82E-07	0.00E+00	0.00E+00

ΣALL is total risk summed for all nuclides.

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## Probabilistic Dose vs Pathway(i): Ground External

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	5.10E+00	4.46E+00	3.40E+00	1.32E+00	8.51E-02	2.83E-14	0.00E+00	0.00E+00
Max	5.10E+00	4.46E+00	3.40E+00	1.32E+00	8.51E-02	2.83E-14	0.00E+00	0.00E+00
Avg	5.10E+00	4.46E+00	3.40E+00	1.32E+00	8.51E-02	2.83E-14	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	2.81E+00	2.00E+00	1.02E+00	9.39E-02	1.02E-04	2.08E-23	0.00E+00	0.00E+00
Max	2.81E+00	2.00E+00	1.02E+00	9.40E-02	1.02E-04	2.09E-23	0.00E+00	0.00E+00
Avg	2.81E+00	2.00E+00	1.02E+00	9.40E-02	1.02E-04	2.08E-23	0.00E+00	0.00E+00
Std	2.33E-05	5.17E-05	6.18E-05	1.72E-05	5.46E-08	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	1.18E+00	1.15E+00	1.09E+00	9.01E-01	5.10E-01	2.92E-10	0.00E+00	0.00E+00
Max	1.18E+00	1.15E+00	1.09E+00	9.01E-01	5.11E-01	2.94E-10	0.00E+00	0.00E+00
Avg	1.18E+00	1.15E+00	1.09E+00	9.01E-01	5.11E-01	2.93E-10	0.00E+00	0.00E+00
Std	1.03E-05	3.02E-05	6.69E-05	1.66E-04	2.73E-04	5.13E-13	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	6.97E-03	4.09E-03	1.41E-03	3.40E-05	7.90E-10	0.00E+00	0.00E+00	0.00E+00
Max	7.51E-03	5.19E-03	2.47E-03	1.84E-04	1.09E-07	3.91E-27	0.00E+00	0.00E+00
Avg	7.27E-03	4.69E-03	1.96E-03	9.83E-05	2.75E-08	3.44E-28	0.00E+00	0.00E+00
Std	1.56E-04	3.15E-04	3.08E-04	4.40E-05	2.95E-08	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	9.10E+00	7.61E+00	5.51E+00	2.31E+00	5.95E-01	2.92E-10	0.00E+00	0.00E+00
Max	9.10E+00	7.62E+00	5.51E+00	2.31E+00	5.96E-01	2.94E-10	0.00E+00	0.00E+00
Avg	9.10E+00	7.61E+00	5.51E+00	2.31E+00	5.96E-01	2.93E-10	0.00E+00	0.00E+00
Std	1.58E-04	3.22E-04	3.22E-04	1.73E-04	2.73E-04	5.13E-13	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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## Probabilistic Dose vs Pathway(i): Inhalation (w/o Radon)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.96E-06	1.70E-06	1.28E-06	4.69E-07	2.57E-08	2.39E-21	0.00E+00	0.00E+00
Max	1.96E-06	1.70E-06	1.28E-06	4.69E-07	2.57E-08	2.39E-21	0.00E+00	0.00E+00
Avg	1.96E-06	1.70E-06	1.28E-06	4.69E-07	2.57E-08	2.39E-21	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	6.56E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	3.75E-07	2.65E-07	1.32E-07	1.15E-08	1.05E-11	0.00E+00	0.00E+00	0.00E+00
Max	3.75E-07	2.65E-07	1.32E-07	1.15E-08	1.05E-11	0.00E+00	0.00E+00	0.00E+00
Avg	3.75E-07	2.65E-07	1.32E-07	1.15E-08	1.05E-11	0.00E+00	0.00E+00	0.00E+00
Std	3.10E-12	6.83E-12	8.04E-12	2.12E-12	5.59E-15	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	3.01E-07	2.91E-07	2.71E-07	2.11E-07	9.97E-08	1.64E-17	0.00E+00	0.00E+00
Max	3.01E-07	2.91E-07	2.71E-07	2.11E-07	9.99E-08	1.65E-17	0.00E+00	0.00E+00
Avg	3.01E-07	2.91E-07	2.71E-07	2.11E-07	9.98E-08	1.65E-17	0.00E+00	0.00E+00
Std	2.63E-12	7.64E-12	1.66E-11	3.89E-11	5.34E-11	2.89E-20	0.00E+00	0.00E+00
Ni-63								
Min	5.94E-08	5.73E-08	5.33E-08	4.12E-08	1.90E-08	2.90E-18	0.00E+00	0.00E+00
Max	5.98E-08	5.86E-08	5.62E-08	4.84E-08	3.05E-08	1.37E-17	0.00E+00	0.00E+00
Avg	5.97E-08	5.83E-08	5.55E-08	4.66E-08	2.73E-08	9.93E-18	0.00E+00	0.00E+00
Std	1.11E-10	3.26E-10	7.21E-10	1.79E-09	2.91E-09	2.99E-18	0.00E+00	0.00E+00
Sr-90								
Min	9.71E-06	5.65E-06	1.92E-06	4.32E-08	8.19E-13	0.00E+00	0.00E+00	0.00E+00
Max	1.05E-05	7.16E-06	3.35E-06	2.34E-07	1.12E-10	0.00E+00	0.00E+00	0.00E+00
Avg	1.01E-05	6.47E-06	2.66E-06	1.25E-07	2.85E-11	0.00E+00	0.00E+00	0.00E+00
Std	2.17E-07	4.35E-07	4.17E-07	5.59E-08	3.06E-11	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	1.24E-05	7.97E-06	3.65E-06	7.80E-07	1.44E-07	1.93E-17	0.00E+00	0.00E+00
Max	1.32E-05	9.47E-06	5.09E-06	9.74E-07	1.56E-07	3.02E-17	0.00E+00	0.00E+00
Avg	1.28E-05	8.79E-06	4.39E-06	8.63E-07	1.53E-07	2.64E-17	0.00E+00	0.00E+00
Std	2.17E-07	4.35E-07	4.17E-07	5.59E-08	2.91E-09	2.98E-18	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

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## Probabilistic Dose vs Pathway(i): Radon (Water Ind.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Plant (Water Ind.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	6.17E-02	5.35E-02	4.02E-02	1.48E-02	8.09E-04	7.57E-13	0.00E+00	0.00E+00
Max	6.17E-02	5.35E-02	4.02E-02	1.48E-02	8.09E-04	7.57E-13	0.00E+00	0.00E+00
Avg	6.17E-02	5.35E-02	4.02E-02	1.48E-02	8.09E-04	7.57E-13	0.00E+00	0.00E+00
Std	1.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	7.92E-02	5.60E-02	2.79E-02	2.44E-03	2.21E-06	1.33E-21	0.00E+00	0.00E+00
Max	7.93E-02	5.60E-02	2.79E-02	2.44E-03	2.21E-06	1.33E-21	0.00E+00	0.00E+00
Avg	7.93E-02	5.60E-02	2.79E-02	2.44E-03	2.21E-06	1.33E-21	0.00E+00	0.00E+00
Std	6.14E-07	1.41E-06	1.68E-06	4.46E-07	1.18E-09	2.16E-24	0.00E+00	0.00E+00
Cs-137								
Min	6.29E-02	6.07E-02	5.66E-02	4.41E-02	2.08E-02	3.45E-08	0.00E+00	0.00E+00
Max	6.29E-02	6.07E-02	5.66E-02	4.41E-02	2.09E-02	3.47E-08	0.00E+00	0.00E+00
Avg	6.29E-02	6.07E-02	5.66E-02	4.41E-02	2.08E-02	3.46E-08	0.00E+00	0.00E+00
Std	5.15E-07	1.56E-06	3.44E-06	8.09E-06	1.11E-05	6.06E-11	0.00E+00	0.00E+00
Ni-63								
Min	8.56E-04	8.26E-04	7.68E-04	5.94E-04	2.74E-04	4.21E-10	0.00E+00	0.00E+00
Max	8.62E-04	8.45E-04	8.10E-04	6.98E-04	4.39E-04	1.98E-09	0.00E+00	0.00E+00
Avg	8.61E-04	8.40E-04	8.00E-04	6.72E-04	3.94E-04	1.44E-09	0.00E+00	0.00E+00
Std	1.51E-06	4.59E-06	1.03E-05	2.57E-05	4.19E-05	4.32E-10	0.00E+00	0.00E+00
Sr-90								
Min	1.16E+00	6.76E-01	2.29E-01	5.16E-03	9.80E-08	8.54E-29	0.00E+00	0.00E+00
Max	1.24E+00	8.52E-01	3.99E-01	2.79E-02	1.34E-05	8.84E-22	0.00E+00	0.00E+00
Avg	1.21E+00	7.72E-01	3.17E-01	1.49E-02	3.39E-06	7.77E-23	0.00E+00	0.00E+00
Std	2.42E-02	5.07E-02	4.93E-02	6.64E-03	3.64E-06	1.74E-22	0.00E+00	0.00E+00
ΣALL								
Min	1.36E+00	8.47E-01	3.55E-01	6.71E-02	2.19E-02	3.49E-08	0.00E+00	0.00E+00
Max	1.45E+00	1.02E+00	5.24E-01	8.98E-02	2.21E-02	3.66E-08	0.00E+00	0.00E+00
Avg	1.41E+00	9.43E-01	4.42E-01	7.69E-02	2.20E-02	3.60E-08	0.00E+00	0.00E+00
Std	2.42E-02	5.07E-02	4.93E-02	6.64E-03	4.33E-05	4.36E-10	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.



Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Meat (Water Ind.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	9.68E-02	8.40E-02	6.31E-02	2.31E-02	1.27E-03	7.40E-12	0.00E+00	0.00E+00
Max	9.68E-02	8.40E-02	6.31E-02	2.31E-02	1.27E-03	7.40E-12	0.00E+00	0.00E+00
Avg	9.68E-02	8.40E-02	6.31E-02	2.31E-02	1.27E-03	7.40E-12	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	2.02E-01	1.43E-01	7.12E-02	6.22E-03	5.64E-06	1.45E-20	0.00E+00	0.00E+00
Max	2.02E-01	1.43E-01	7.13E-02	6.22E-03	5.65E-06	1.46E-20	0.00E+00	0.00E+00
Avg	2.02E-01	1.43E-01	7.13E-02	6.22E-03	5.65E-06	1.45E-20	0.00E+00	0.00E+00
Std	1.52E-06	3.57E-06	4.28E-06	1.14E-06	3.01E-09	2.55E-23	0.00E+00	0.00E+00
Cs-137								
Min	1.61E-01	1.55E-01	1.44E-01	1.13E-01	5.31E-02	3.82E-07	0.00E+00	0.00E+00
Max	1.61E-01	1.55E-01	1.45E-01	1.13E-01	5.32E-02	3.84E-07	0.00E+00	0.00E+00
Avg	1.61E-01	1.55E-01	1.44E-01	1.13E-01	5.32E-02	3.83E-07	0.00E+00	0.00E+00
Std	1.28E-06	3.94E-06	8.74E-06	2.06E-05	2.84E-05	6.71E-10	0.00E+00	0.00E+00
Ni-63								
Min	1.52E-04	1.46E-04	1.36E-04	1.05E-04	4.85E-05	3.58E-10	0.00E+00	0.00E+00
Max	1.53E-04	1.49E-04	1.43E-04	1.24E-04	7.78E-05	1.68E-09	0.00E+00	0.00E+00
Avg	1.52E-04	1.49E-04	1.42E-04	1.19E-04	6.97E-05	1.22E-09	0.00E+00	0.00E+00
Std	2.57E-07	8.03E-07	1.81E-06	4.54E-06	7.41E-06	3.68E-10	0.00E+00	0.00E+00
Sr-90								
Min	1.65E-01	9.63E-02	3.26E-02	7.36E-04	1.40E-08	1.18E-28	0.00E+00	0.00E+00
Max	1.75E-01	1.20E-01	5.61E-02	3.92E-03	1.89E-06	1.21E-21	0.00E+00	0.00E+00
Avg	1.70E-01	1.09E-01	4.48E-02	2.10E-03	4.79E-07	1.07E-22	0.00E+00	0.00E+00
Std	2.93E-03	6.83E-03	6.83E-03	9.33E-04	5.13E-07	2.39E-22	0.00E+00	0.00E+00
ΣALL								
Min	6.24E-01	4.78E-01	3.12E-01	1.43E-01	5.44E-02	3.82E-07	0.00E+00	0.00E+00
Max	6.34E-01	5.02E-01	3.35E-01	1.46E-01	5.46E-02	3.86E-07	0.00E+00	0.00E+00
Avg	6.30E-01	4.91E-01	3.24E-01	1.44E-01	5.45E-02	3.84E-07	0.00E+00	0.00E+00
Std	2.93E-03	6.83E-03	6.83E-03	9.33E-04	2.92E-05	7.59E-10	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Milk (Water Ind.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	1.99E-02	1.73E-02	1.30E-02	4.76E-03	2.61E-04	2.10E-12	0.00E+00	0.00E+00
Max	1.99E-02	1.73E-02	1.30E-02	4.76E-03	2.61E-04	2.10E-12	0.00E+00	0.00E+00
Avg	1.99E-02	1.73E-02	1.30E-02	4.76E-03	2.61E-04	2.10E-12	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	2.28E-01	1.61E-01	8.02E-02	7.00E-03	6.35E-06	2.56E-20	0.00E+00	0.00E+00
Max	2.28E-01	1.61E-01	8.02E-02	7.00E-03	6.36E-06	2.58E-20	0.00E+00	0.00E+00
Avg	2.28E-01	1.61E-01	8.02E-02	7.00E-03	6.35E-06	2.57E-20	0.00E+00	0.00E+00
Std	1.62E-06	3.94E-06	4.78E-06	1.28E-06	3.39E-09	4.50E-23	0.00E+00	0.00E+00
Cs-137								
Min	1.81E-01	1.74E-01	1.63E-01	1.27E-01	5.98E-02	6.74E-07	0.00E+00	0.00E+00
Max	1.81E-01	1.74E-01	1.63E-01	1.27E-01	5.99E-02	6.79E-07	0.00E+00	0.00E+00
Avg	1.81E-01	1.74E-01	1.63E-01	1.27E-01	5.98E-02	6.77E-07	0.00E+00	0.00E+00
Std	1.37E-06	4.36E-06	9.76E-06	2.32E-05	3.19E-05	1.19E-09	0.00E+00	0.00E+00
Ni-63								
Min	5.24E-03	5.06E-03	4.70E-03	3.64E-03	1.68E-03	1.88E-08	0.00E+00	0.00E+00
Max	5.28E-03	5.17E-03	4.96E-03	4.27E-03	2.69E-03	8.85E-08	0.00E+00	0.00E+00
Avg	5.27E-03	5.14E-03	4.90E-03	4.11E-03	2.41E-03	6.43E-08	0.00E+00	0.00E+00
Std	8.44E-06	2.73E-05	6.22E-05	1.57E-04	2.56E-04	1.93E-08	0.00E+00	0.00E+00
Sr-90								
Min	4.09E-01	2.40E-01	8.12E-02	1.83E-03	3.48E-08	3.28E-28	0.00E+00	0.00E+00
Max	4.34E-01	2.98E-01	1.40E-01	9.75E-03	4.69E-06	3.37E-21	0.00E+00	0.00E+00
Avg	4.23E-01	2.72E-01	1.11E-01	5.23E-03	1.19E-06	2.97E-22	0.00E+00	0.00E+00
Std	7.08E-03	1.68E-02	1.69E-02	2.32E-03	1.28E-06	6.65E-22	0.00E+00	0.00E+00
ΣALL								
Min	8.43E-01	5.97E-01	3.42E-01	1.44E-01	6.17E-02	6.93E-07	0.00E+00	0.00E+00
Max	8.67E-01	6.56E-01	4.00E-01	1.52E-01	6.28E-02	7.66E-07	0.00E+00	0.00E+00
Avg	8.56E-01	6.29E-01	3.72E-01	1.48E-01	6.25E-02	7.41E-07	0.00E+00	0.00E+00
Std	7.08E-03	1.68E-02	1.69E-02	2.32E-03	2.58E-04	1.93E-08	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Soil Ingestion

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	3.55E-04	3.08E-04	2.31E-04	8.48E-05	4.65E-06	4.33E-19	0.00E+00	0.00E+00
Max	3.55E-04	3.08E-04	2.31E-04	8.48E-05	4.65E-06	4.33E-19	0.00E+00	0.00E+00
Avg	3.55E-04	3.08E-04	2.31E-04	8.48E-05	4.65E-06	4.33E-19	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	8.76E-04	6.19E-04	3.08E-04	2.69E-05	2.44E-08	1.46E-27	0.00E+00	0.00E+00
Max	8.76E-04	6.19E-04	3.09E-04	2.69E-05	2.45E-08	1.47E-27	0.00E+00	0.00E+00
Avg	8.76E-04	6.19E-04	3.09E-04	2.69E-05	2.44E-08	1.46E-27	0.00E+00	0.00E+00
Std	7.23E-09	1.60E-08	1.88E-08	4.94E-09	1.31E-11	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	6.95E-04	6.71E-04	6.26E-04	4.87E-04	2.30E-04	3.79E-14	0.00E+00	0.00E+00
Max	6.95E-04	6.71E-04	6.26E-04	4.88E-04	2.30E-04	3.81E-14	0.00E+00	0.00E+00
Avg	6.95E-04	6.71E-04	6.26E-04	4.88E-04	2.30E-04	3.80E-14	0.00E+00	0.00E+00
Std	6.06E-09	1.76E-08	3.84E-08	8.97E-08	1.23E-07	6.67E-17	0.00E+00	0.00E+00
Ni-63								
Min	8.02E-06	7.73E-06	7.19E-06	5.56E-06	2.57E-06	3.92E-16	0.00E+00	0.00E+00
Max	8.08E-06	7.91E-06	7.59E-06	6.54E-06	4.12E-06	1.84E-15	0.00E+00	0.00E+00
Avg	8.06E-06	7.87E-06	7.49E-06	6.29E-06	3.69E-06	1.34E-15	0.00E+00	0.00E+00
Std	1.50E-08	4.40E-08	9.74E-08	2.41E-07	3.93E-07	4.03E-16	0.00E+00	0.00E+00
Sr-90								
Min	1.67E-03	9.72E-04	3.29E-04	7.42E-06	1.41E-10	0.00E+00	0.00E+00	0.00E+00
Max	1.80E-03	1.23E-03	5.76E-04	4.02E-05	1.93E-08	1.27E-28	0.00E+00	0.00E+00
Avg	1.74E-03	1.11E-03	4.57E-04	2.15E-05	4.90E-09	1.11E-29	0.00E+00	0.00E+00
Std	3.73E-05	7.48E-05	7.17E-05	9.61E-06	5.26E-09	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	3.60E-03	2.58E-03	1.50E-03	6.13E-04	2.37E-04	3.83E-14	0.00E+00	0.00E+00
Max	3.73E-03	2.84E-03	1.75E-03	6.46E-04	2.39E-04	4.00E-14	0.00E+00	0.00E+00
Avg	3.67E-03	2.72E-03	1.63E-03	6.27E-04	2.39E-04	3.94E-14	0.00E+00	0.00E+00
Std	3.73E-05	7.48E-05	7.17E-05	9.61E-06	4.10E-07	4.07E-16	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Water Ingestion

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-02	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-02	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-02	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-02	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Fish Ingestion

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Radon (Water Dep.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Plant (Water Dep.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-03	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Meat (Water Dep.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-03	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.



Probabilistic results summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\SOIL DCGL\RESRAD INPUT FILE\ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

## Probabilistic Dose vs Pathway(i): Milk (Water Dep.)

Nuclide (j)	DOSE(i,j,t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
Co-60								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-134								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-63								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03	0.00E+00	0.00E+00
ΣALL								
Min	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-07	0.00E+00	0.00E+00
Max	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00
Avg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00
Std	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-03	0.00E+00	0.00E+00

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default

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## Cumulative Probability Summary for: Total Dose Over Pathways

Cumulative Probability	Dose (t), mrem/yr							
	t= 0.00E+00	1.00E+00	3.00E+00	1.00E+01	3.00E+01	1.00E+02	3.00E+02	1.00E+03
0.025	1.19E+01	9.55E+00	6.52E+00	2.67E+00	7.34E-01	2.43E-05	0.00E+00	0.00E+00
0.050	1.19E+01	9.56E+00	6.53E+00	2.67E+00	7.34E-01	3.19E-05	0.00E+00	0.00E+00
0.075	1.19E+01	9.56E+00	6.54E+00	2.67E+00	7.34E-01	5.13E-05	0.00E+00	0.00E+00
0.100	1.20E+01	9.57E+00	6.54E+00	2.67E+00	7.35E-01	9.59E-05	0.00E+00	0.00E+00
0.125	1.20E+01	9.58E+00	6.55E+00	2.67E+00	7.35E-01	1.53E-04	0.00E+00	0.00E+00
0.150	1.20E+01	9.59E+00	6.56E+00	2.67E+00	7.35E-01	2.37E-04	0.00E+00	0.00E+00
0.175	1.20E+01	9.59E+00	6.56E+00	2.67E+00	7.35E-01	3.38E-04	0.00E+00	0.00E+00
0.200	1.20E+01	9.60E+00	6.57E+00	2.67E+00	7.35E-01	5.32E-04	0.00E+00	0.00E+00
0.225	1.20E+01	9.61E+00	6.58E+00	2.67E+00	7.35E-01	6.87E-04	0.00E+00	0.00E+00
0.250	1.20E+01	9.62E+00	6.59E+00	2.67E+00	7.35E-01	9.01E-04	0.00E+00	0.00E+00
0.275	1.20E+01	9.63E+00	6.59E+00	2.67E+00	7.35E-01	1.18E-03	0.00E+00	0.00E+00
0.300	1.20E+01	9.63E+00	6.60E+00	2.67E+00	7.35E-01	1.39E-03	0.00E+00	0.00E+00
0.325	1.20E+01	9.64E+00	6.60E+00	2.67E+00	7.35E-01	1.73E-03	0.00E+00	0.00E+00
0.350	1.20E+01	9.65E+00	6.61E+00	2.67E+00	7.35E-01	2.29E-03	0.00E+00	0.00E+00
0.375	1.20E+01	9.65E+00	6.62E+00	2.68E+00	7.35E-01	2.86E-03	0.00E+00	0.00E+00
0.400	1.20E+01	9.66E+00	6.62E+00	2.68E+00	7.35E-01	3.89E-03	0.00E+00	0.00E+00
0.425	1.20E+01	9.67E+00	6.63E+00	2.68E+00	7.35E-01	4.86E-03	0.00E+00	0.00E+00
0.450	1.20E+01	9.67E+00	6.64E+00	2.68E+00	7.35E-01	5.42E-03	0.00E+00	0.00E+00
0.475	1.20E+01	9.68E+00	6.64E+00	2.68E+00	7.35E-01	6.55E-03	0.00E+00	0.00E+00
0.500	1.20E+01	9.69E+00	6.65E+00	2.68E+00	7.35E-01	7.62E-03	0.00E+00	0.00E+00
0.525	1.20E+01	9.69E+00	6.66E+00	2.68E+00	7.35E-01	9.05E-03	0.00E+00	0.00E+00
0.550	1.20E+01	9.70E+00	6.66E+00	2.68E+00	7.35E-01	1.03E-02	0.00E+00	0.00E+00
0.575	1.20E+01	9.70E+00	6.67E+00	2.68E+00	7.35E-01	1.26E-02	0.00E+00	0.00E+00
0.600	1.20E+01	9.71E+00	6.67E+00	2.68E+00	7.35E-01	1.46E-02	0.00E+00	0.00E+00
0.625	1.20E+01	9.72E+00	6.68E+00	2.68E+00	7.35E-01	1.81E-02	0.00E+00	0.00E+00
0.650	1.20E+01	9.72E+00	6.69E+00	2.68E+00	7.35E-01	2.39E-02	0.00E+00	0.00E+00
0.675	1.20E+01	9.73E+00	6.69E+00	2.69E+00	7.35E-01	3.12E-02	0.00E+00	0.00E+00
0.700	1.20E+01	9.73E+00	6.70E+00	2.69E+00	7.35E-01	3.95E-02	0.00E+00	0.00E+00
0.725	1.20E+01	9.74E+00	6.71E+00	2.69E+00	7.36E-01	5.15E-02	0.00E+00	0.00E+00
0.750	1.20E+01	9.75E+00	6.71E+00	2.69E+00	7.36E-01	6.28E-02	0.00E+00	0.00E+00
0.775	1.20E+01	9.75E+00	6.72E+00	2.69E+00	7.36E-01	7.62E-02	0.00E+00	0.00E+00
0.800	1.20E+01	9.76E+00	6.72E+00	2.69E+00	7.36E-01	1.13E-01	0.00E+00	0.00E+00
0.825	1.20E+01	9.76E+00	6.73E+00	2.69E+00	7.36E-01	1.32E-01	0.00E+00	0.00E+00
0.850	1.20E+01	9.77E+00	6.73E+00	2.69E+00	7.36E-01	1.33E-01	0.00E+00	0.00E+00
0.875	1.20E+01	9.77E+00	6.74E+00	2.69E+00	7.36E-01	1.35E-01	0.00E+00	0.00E+00
0.900	1.20E+01	9.78E+00	6.75E+00	2.70E+00	7.36E-01	1.38E-01	0.00E+00	0.00E+00
0.925	1.21E+01	9.78E+00	6.75E+00	2.70E+00	7.36E-01	1.41E-01	0.00E+00	0.00E+00
0.950	1.21E+01	9.79E+00	6.76E+00	2.70E+00	7.36E-01	1.43E-01	0.00E+00	0.00E+00
0.975	1.21E+01	9.79E+00	6.76E+00	2.70E+00	7.36E-01	1.50E-01	0.00E+00	0.00E+00
1.000	1.21E+01	9.80E+00	6.77E+00	2.70E+00	7.36E-01	1.58E-01	0.00E+00	0.00E+00







Probabilistic results summary : RESRAD Default

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Peak of the mean dose (averaged over observations) at graphical times

Repetition	Time of peak mean dose Years	Peak mean dose mrem/yr
1	0.000E+00	1.200E+01
2	0.000E+00	1.200E+01
3	0.000E+00	1.200E+01

Title : RESRAD Default

Input File : ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	1	1	1	1

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Kd of Cs-134 in Contaminated Zone	5	-0.12	5	-0.01	9	0.03	9	0.00
Kd of Cs-134 in Unsaturated Zone 1	4	-0.13	4	-0.01	3	-0.17	3	-0.01
Kd of Cs-134 in Saturated Zone	11	-0.04	11	0.00	7	-0.09	7	-0.01
Kd of Cs-137 in Contaminated Zone	6	0.11	6	0.01	8	0.07	8	0.01
Kd of Cs-137 in Unsaturated Zone 1	2	0.19	2	0.02	2	0.21	2	0.02
Kd of Cs-137 in Saturated Zone	9	0.08	9	0.01	11	0.01	11	0.00
Kd of Ni-63 in Contaminated Zone	8	0.09	8	0.01	5	0.14	5	0.01
Kd of Ni-63 in Unsaturated Zone 1	10	-0.07	10	-0.01	6	-0.10	6	-0.01
Kd of Ni-63 in Saturated Zone	3	0.15	3	0.02	12	0.00	12	0.00
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	0.99
Kd of Sr-90 in Unsaturated Zone 1	12	0.00	12	0.00	10	-0.02	10	0.00
Kd of Sr-90 in Saturated Zone	7	-0.10	7	-0.01	4	-0.15	4	-0.01
R-SQUARE		0.99		0.99		0.99		0.99

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Title : RESRAD Default

Input File : ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	2	2	2	2

Description of Probabilistic Variable	PCC		SRC		PRCC		SRRC	
	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Kd of Cs-134 in Contaminated Zone	6	-0.08	6	-0.01	12	0.00	12	0.00
Kd of Cs-134 in Unsaturated Zone 1	12	0.00	12	0.00	8	0.09	8	0.01
Kd of Cs-134 in Saturated Zone	2	0.25	2	0.03	4	0.17	4	0.01
Kd of Cs-137 in Contaminated Zone	5	0.13	5	0.02	3	0.18	3	0.01
Kd of Cs-137 in Unsaturated Zone 1	7	-0.07	7	-0.01	5	0.13	5	0.01
Kd of Cs-137 in Saturated Zone	3	0.17	3	0.02	2	0.20	2	0.02
Kd of Ni-63 in Contaminated Zone	11	0.01	11	0.00	7	0.09	7	0.01
Kd of Ni-63 in Unsaturated Zone 1	4	-0.15	4	-0.02	9	-0.06	9	0.00
Kd of Ni-63 in Saturated Zone	10	-0.02	10	0.00	6	-0.11	6	-0.01
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	1.00
Kd of Sr-90 in Unsaturated Zone 1	8	-0.07	8	-0.01	10	-0.04	10	0.00
Kd of Sr-90 in Saturated Zone	9	0.05	9	0.01	11	-0.03	11	0.00
R-SQUARE		0.99		0.99		0.99		0.99

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.



Title : RESRAD Default

Input File : ZION SURFACE SOIL DCGL KD SENSITIVITY.RAD

Coefficients for peak All Pathways Dose

Coefficient =	PCC	SRC	PRCC	SRRC
Repetition =	3	3	3	3

Description of Probabilistic Variable	Sig	Coeff	Sig	Coeff	Sig	Coeff	Sig	Coeff
Kd of Cs-134 in Contaminated Zone	6	0.09	6	0.01	5	0.12	5	0.01
Kd of Cs-134 in Unsaturated Zone 1	10	-0.05	10	-0.01	9	-0.04	9	0.00
Kd of Cs-134 in Saturated Zone	2	-0.16	2	-0.02	10	-0.02	10	0.00
Kd of Cs-137 in Contaminated Zone	5	-0.09	5	-0.01	8	-0.05	8	0.00
Kd of Cs-137 in Unsaturated Zone 1	8	0.07	8	0.01	6	-0.10	6	-0.01
Kd of Cs-137 in Saturated Zone	9	0.07	9	0.01	2	0.24	2	0.02
Kd of Ni-63 in Contaminated Zone	7	0.07	7	0.01	7	0.05	7	0.00
Kd of Ni-63 in Unsaturated Zone 1	11	0.02	11	0.00	4	-0.14	4	-0.01
Kd of Ni-63 in Saturated Zone	3	0.12	3	0.01	3	0.21	3	0.02
Kd of Sr-90 in Contaminated Zone	1	0.99	1	0.99	1	1.00	1	1.00
Kd of Sr-90 in Unsaturated Zone 1	4	0.10	4	0.01	11	0.02	11	0.00
Kd of Sr-90 in Saturated Zone	12	0.01	12	0.00	12	-0.01	12	0.00
R-SQUARE		0.99		0.99		0.99		0.99

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.